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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,295 09/16/2003		Yoshihiro Yamaguchi	242778US2DIV	9816
22850	7590 09/20/2004	EXAMINER		
OBLON, S 1940 DUKE	PIVAK, MCCLELLA	CHAUDHARI, CHANDRA P		
	RIA, VA 22314	ART UNIT	PAPER NUMBER	
			2813	

DATE MAILED: 09/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

					Mr		
		Applicatio	n No.	Applicant(s)			
Office Action Summary		10/662,29	5	YAMAGUCHI ET AL.			
		Examiner		Art Unit			
		Chandra C		2813			
Period fo	The MAILING DATE of this communication app or Reply	pears on the	cover sheet with the c	correspondence addres	:S		
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication, e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vare to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no ever y within the statut will apply and will , cause the appli	nt, however, may a reply be tin tory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this commu D (35 U.S.C.§ 133).	nication.		
Status							
1)⊠	Responsive to communication(s) filed on 16 S	eptember 20	<u> 203</u> .				
2a)□	This action is <b>FINAL</b> . 2b) This action is non-final.						
3)⊠	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠ 6)□ 7)□	Claim(s) 14-21 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) 14-21 is/are allowed.  Claim(s) is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	wn from con					
Applicat	ion Papers						
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>16 September 2003</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	are: a)⊡ ao drawing(s) bo tion is require	e held in abeyance. Se ed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1	.121(d).		
Priority	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	ts have beer ts have beer rity docume u (PCT Rule	n received. n received in Applicat nts have been receive e 17.2(a)).	ion No. <u>10/053,657</u> . ed in this National Sta	ge		
2) Noti	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 09162003, 05032004	ı	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal R 6) Other:		2)		

Application/Control Number: 10/662,295

Art Unit: 2813

This application is in condition for allowance except for the following formal matters:

Figures 24-28 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The abstract of the disclosure is objected to because it corresponds to claims directed to a lateral semiconductor device, which has already been allowed. The abstract should correspond to a vertical semiconductor device as in the instant claimed invention. Correction is required. See MPEP § 608.01(b).

The following is a statement of reasons for the indication of allowable subject matter: the prior art does not disclose the first conductivity type buffer layer formed in one surface portion of the first conductivity type base layer, and a second conductivity type drain layer selectively formed in a surface portion of the first conductivity type buffer layer as claimed.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Art Unit: 2813

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Chandra Chaudhari whose telephone number is 571-272-1688. The examiner

can normally be reached on Mon - Fri (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Carl Whitehead Jr. can be reached on 571-272-1702. The fax phone number for the organization

where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chandra Chaudhari

**Primary Examiner** 

Art Unit 2813

Chandra Chaudhari

C. Chardhari

September 16, 2004